

FIG._1

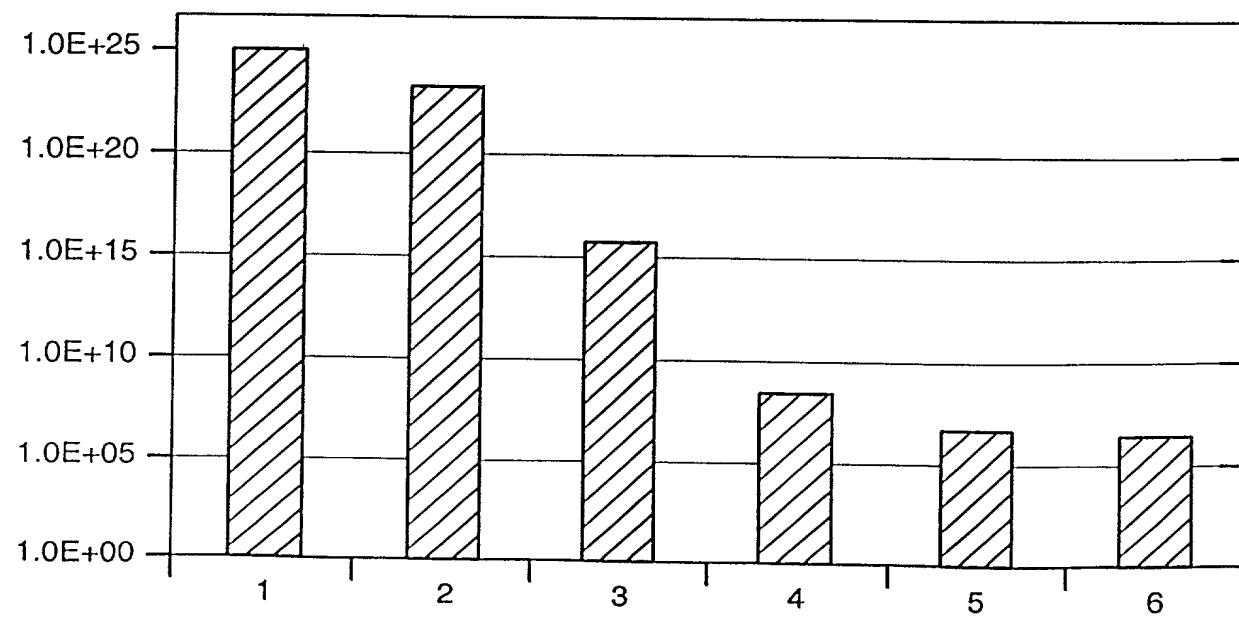


FIG._2



FIG..3

+

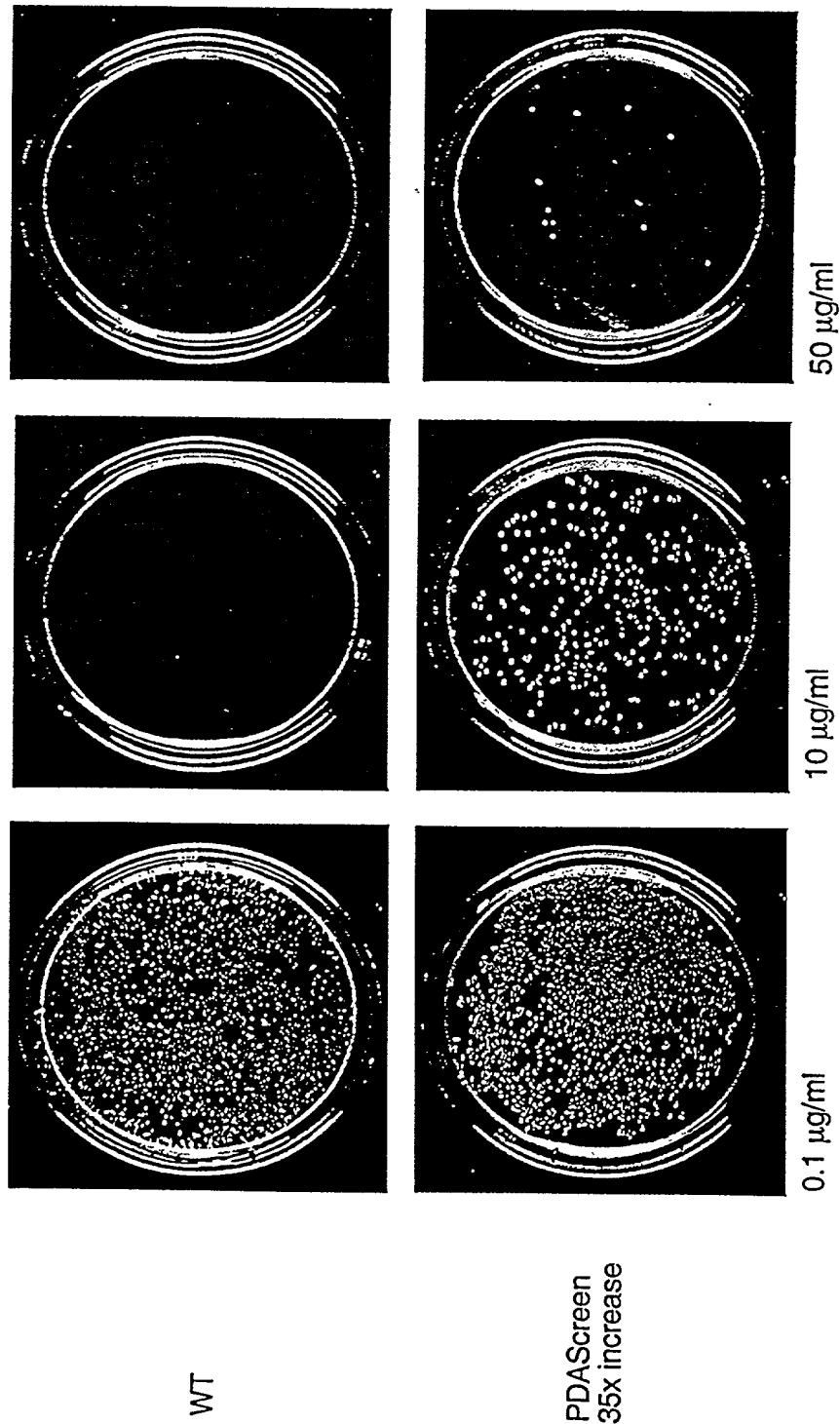
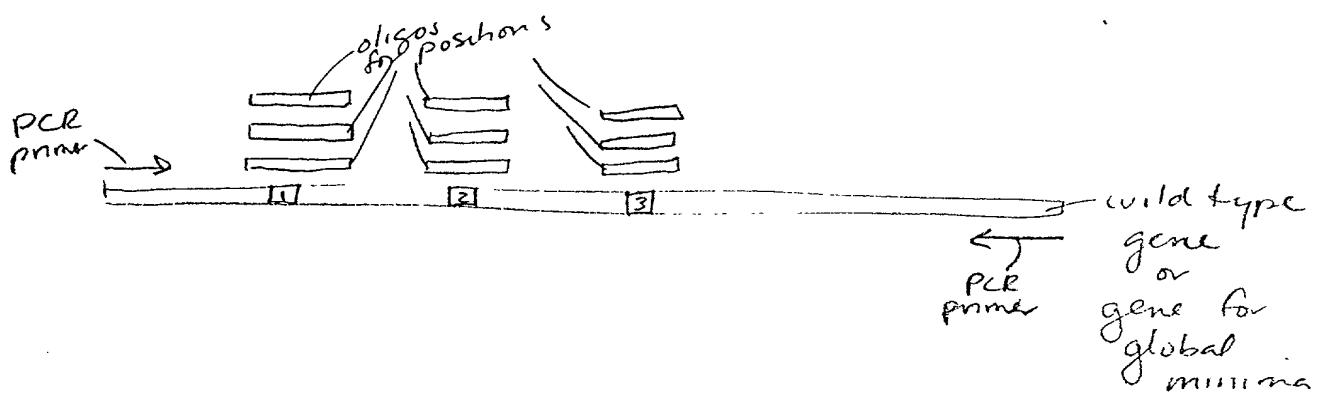
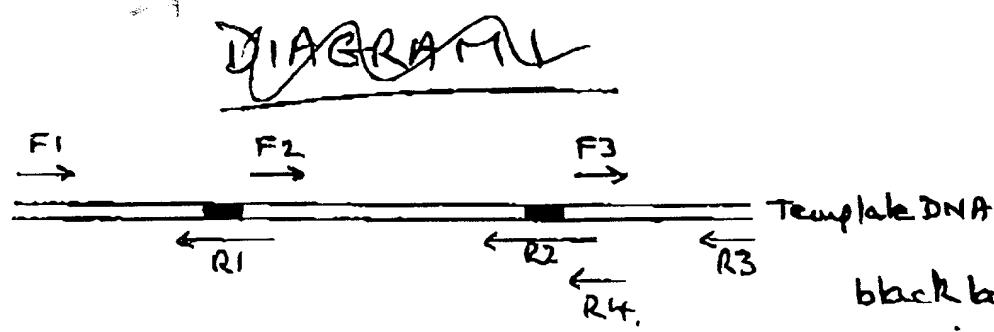


FIG.-4

Figure 5

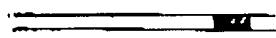




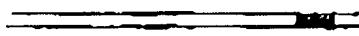
Step 1: Set up 3 PCR reactions.

Products:

Tube 1:



Tube 2:



Tube 3:

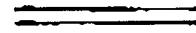
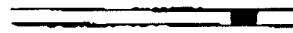


Fig 6A

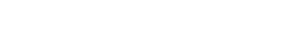
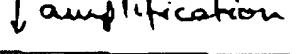
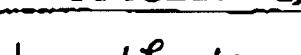
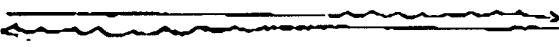
Step 2: Set up PCR reaction with products of tube 1
+ products tube 2 + F1 + R4



↓ Heat removal phase of PCR,



↓ Synthesis phase of PCR.



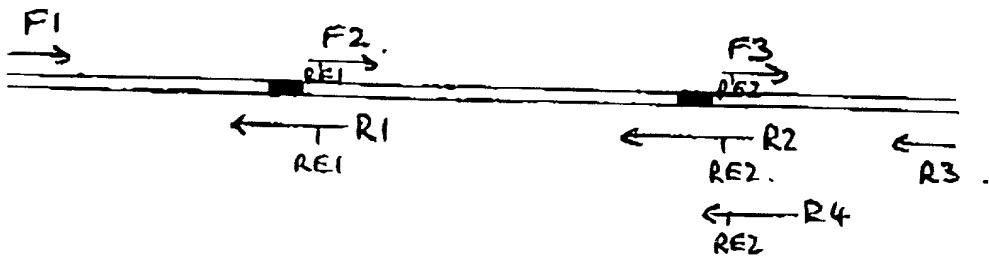
Step 3.

Repeat step 2 using product from Step 2 +
product from Step 1, tube 3 + primers F1 + R3.

Fig 6B

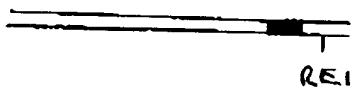
DIAGRAM 2

Fig 7A

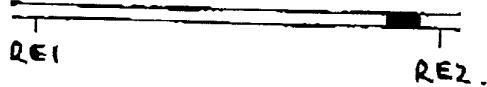


Step 1 Set up 3 PCR reactions:

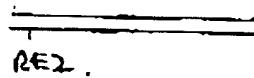
Tube 1:



Tube 2:



Tube 3:



Step 2: digest products from Step 1 with suitable restriction endonucleases

Step 3: ligate digested product from Step 2, tube 2 with digested product from Step 2, tube 1.

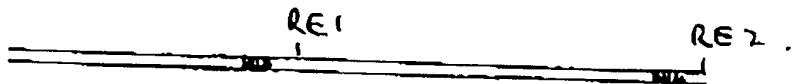


Fig 7B

Step 4

Amplify / ligated products of Step 3 with F1 + R4.
via PCR



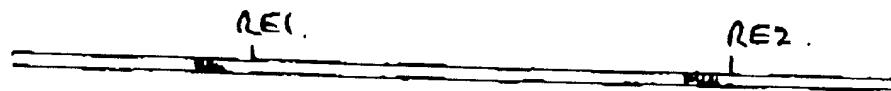
Step 5

Digest amplified product of step 4 with restriction endonuclease #2.



Step 6

Ligate product from step 5 with product from Step 2, tube 1.



Step 7

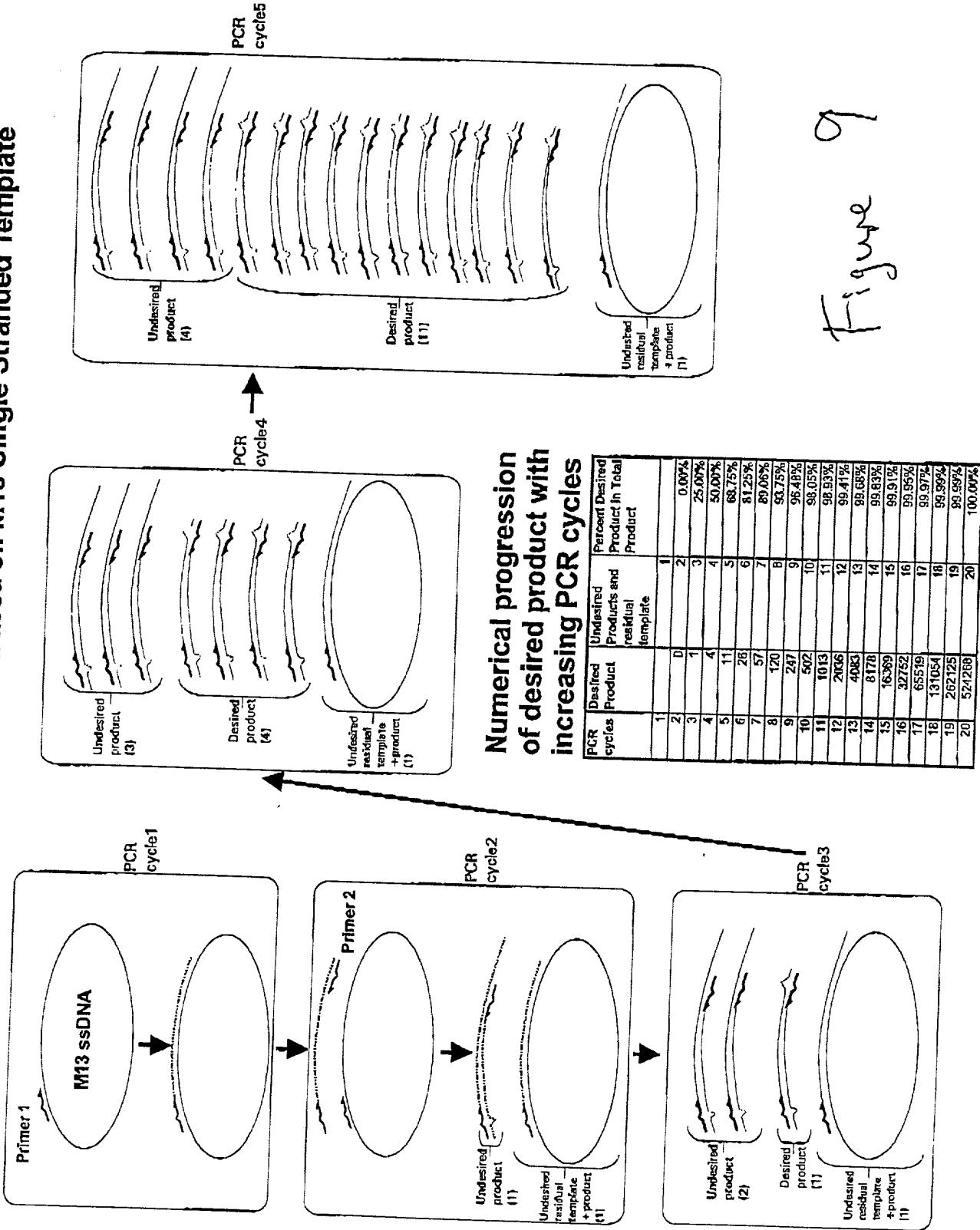
Amplify product from step 6 with F1 + R3

Diagram 3



Fig 8

Amplification Scheme Based on M13 Single Stranded Template



5
2
1